

L3 ANSWER 18 OF 693 CA COPYRIGHT 2005 ACS on STN
 AN 142:61280 CA
 ED Entered STN: 13 Jan 2005
 TI Reinforcing mortar composition for preventing water leakage and rock fall
 in tunnel construction and method for constructing the same
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 PA Hanil Cement Co., Ltd., S. Korea
 SO Repub. Korean Kongkae Taeho Kongbo, No pp. given
 CODEN: KRXXA7
 DT Patent
 LA Korean
 IC ICM C04B014-04
 CC 58-3 (Cement, Concrete, and Related Building Materials)
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	KR 2001053808	A	20010702	KR 1999-54321	19991201
PRAI	KR 1999-54321		19991201		

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
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KR 2001053808	ICM	C04B014-04
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AB A reinforcing mortar composition for preventing a water leakage and rock fall
 in tunnel construction is provided, which improves compression strength
 and bending strength and has excellent adhesion and generates little amount
 of rebound, and a method for constructing the same is also provided, which
 prevents generation of dust particles and increases tunnel boring speed
 and working stability. The reinforcing mortar composition comprises: (i)
 30-35% of cement; (ii) 28-33% of sand(S1) having a particle size
 of not more than 0.6 mm; (iii) 25-28% of sand(S2) having a particle size
 of more than 0.6 mm and not less than 2.4 mm; (iv) 5-10% of fly ash; (v)
 0.1-5% of high strength mixing agent; (vi) 0.1-0.65% of super
plasticizer; (vii) 0.004-0.007% of Me cellulose; and
 (viii) aluminate accelerator. The method comprises steps of: (i) stirring
 the reinforcing mortar composition in a mixer; and (ii) pumping the stirred
 composition of the step (i) with a rotor starter where the composition is
 sprayed on
 the inside of the tunnel by the accelerator and compressed air being
 connected to a pumping nozzle.

ST reinforcing mortar compn tunnel water leakage rock fall prevention

IT Ashes (residues)

(fly; reinforcing mortar composition for preventing water leakage and rock
 fall in tunnel construction and method for constructing the same)

IT **Cement**
 Concrete
 Mortar